

TACGCCAAGC TCGAAATTAA CCCTCACTAA AGGGAACAAA AGCTGGAGCT
 CCACCGCGGT GCGGGCCGCT CTAGAAGTAG TGGATCCCCC GGGCTGCAGG
 AATTCGAATT CTCATAACCT ATGACTAGGA CGGGAAGAGG AAGCACTGCC
 TTTACTTCAG TGGGAATCTC GGCCTCAGCC TGCAAGCCAA GTGTTCACAG
 TGAGAAAAGC AAGAGAATAA GCTAATACTC CTGTCCTGAA CAAGGCAGCG
 GCTCCTTGGT AAAGCTACTC CTTGATCGAT CCTTTGCACC GGATTGTTCA
 AAGTGGACCC CAGGGGAGAA GTCGGAGCAA AGAACTTACC ACCAAGCAGT
 CCAAGAGGCC CAGAAGCAAA CCTGGAGGTG AGACCCAAAG AAAGCTGGAA
 CCATGCTGAC TTTGTACACT GTGAGGACAC AGAGTCTGTT CCTGGAAAGC
 CCAGTGTCAA CGCAGATGAG GAAGTCGGAG GTCCCCAAAT CTGCCGTGTA
 TGTGGGGACA AGGCCACTGG CTATCACTTC AATGTCATGA CATGTGAAGG
 ATGCAAGGGC TTTTTCAGGA GGGCCATGAA ACGCAACGCC CGGCTGAGGT
 GCCCCTTCCG GAAGGGCGCC TGCGAGATCA CCCGGAAGAC CCGGCGACAG
 TGCCAGGCCT GCCGCCTGCG CAAGTGCCTG GAGAGCGGCA TGAAGAAGGA
 GATGATCATG TCCGACGAGG CCGTGGAGGA GAGGCGGGCC TTGATCAAGC
 GGAAGAAAAG TGAACGGACA GGGACTCAGC CACTGGGAGT GCAGGGGCTG
 ACAGAGGAGC AGCGGATGAT GATCAGGGAG CTGATGGACG CTCAGATGAA
 AACCTTTGAC ACTACCTTCT CCCATTTCAA GAATTTCCGG CTGCCAGGGG
 TGCTTAGCAG TGGCTGCGAG TTGCCAGAGT CTCTGCAGGC CCCATCGAGG
 GAAGAAGCTG CCAAGTGGAG CCAGGTCCGG AAAGATCTGT GCTCTTTGAA
 GGTCTCTCTG CAGCTGCGGG GGGAGGATGG CAGTGTCTGG AACTACAAAC
 CCCCAGCCGA CAGTGGCGGG AAAGAGATCT TCTCCCTGCT GCCCCACATG
 GCTGACATGT CAACCTACAT GTTCAAAGGC ATCATCAGCT TTGCCAAAGT
 CATCTCCTAC TTCAGGGACT TGCCCATCGA GGACCAGATC TCCCTGCTGA

FIGURE 1A

AGGGGGCCGC TTTCGAGCTG TGTCAACTGA GATTCAACAC AGTGTTC AAC
 GCGGAGACTG GAACCTGGGA GTGTGGCCGG CTGTCCTACT GCTTGGAAGA
 CACTGCAGGT GGCTTCCAGC AACTTCTACT GGAGCCCATG CTGAAATTCC
 ACTACATGCT GAAGAAGCTG CAGCTGCATG AGGAGGAGTA TGTGCTGATG
 CAGGCCATCT CCCTCTTCTC CCCAGACCGC CCAGGTGTGC TGCAGCACCG
 CGTGGTGGAC CAGCTGCAGG AGCAATTGCG CATTACTCTG AAGTCCTACA
 TTGAATGCAA TCGGCCCCAG CCTGCTCATA GGTTCTTGTT CCTGAAGATC
 ATGGCTATGC TCACCGAGCT CCGCAGCATC AATGCTCAGC ACACCCAGCG
 GCTGCTGCGC ATCCAGGACA TACACCCCTT TGCTACGCCC CTCATGCAGG
 AGTTGTTCCG CATCACAGGT AGCTGAGCGG CTGCCCTTGG GTGACACCTC
 CGAGAGGCAG CCAGACCCAG AGCCCTCTGA GCCGCCACTC CCGGGCCAAG
 ACAGATGGAC ACTGCCAAGA GCCGACAATG CCCTGCTGGC CTGTCTCCCT
 AGGGAATTCC TGCTATGACA GCTGGCTAGC ATTCCTCAGG AAGGACATGG
 GTGCCCCCCA CCCCCAGTT AGTCTGTAGG GAGTGAAGCC ACAGATTCTT
 ACGTGGAGAG TGCACTGACC TGTAGGTCAG GACCATCAGA GAGGCAAGGT
 TGCCCTTTCC TTTTAAAAGG CCCTGTGGTC TGGGGAGAAA TCCCTCAGAT
 CCCACTAAAG TGTCAAGGTG TGGAAGGGAC CAAGCGACCA AGGATAGGCC
 ATCTGGGGTC TATGCCACA TACCCACGTT TGTTGCTTC CTGAGTCTTT
 TCATTGCTAC CTCTAATAGT CCTGTCTCCC ACTTCCCCT CGTTCCCCTC
 CTCTTCCGAG CTGCTTTGTG GGCTCCAGGC CTGTACTCAT CGGCAGGTGC
 ATGAGTATCT GTGGGAGTCC TCTAGAGAGA TGAGAAGCCA GGAGGCCTGC
 ACCAAATGTC AGAAGCTTGG CATGACCTCA TTCCGGCCAC ATCATTCTGT
 GTCTCTGCAT CCATTTGAAC ACATTATTAA GCACCGATAA TAGGTAGCCT

FIGURE 1B

GCTGTGGGGT ATACAGCATT GACTCAGATA TAGATCCTGA GCTCACAGAG
TTTATAGTTA AAAAAACAAA CAGAAACACA AACAATTTGG ATCAAAAGGA
GAAATGATAA GTGACAAAAG CAGCACAAGG AATTTCCCTG TGTGGATGCT
GAGCTGTGAT GGCGGGCACT GGGTACCCAA GTGAAGGTTT CCGAGGACAT
GAGTCTGTAG GAGCAAGGGC ACAAACTGCA GCTGTGAGTG CGTGTGTGTG
ATTTGGTGTG GGTAGGTCTG TTTGCCACTT GATGGGGCCT GGGTTTGTTC
CTGGGGCTGG AATGCTGGGT ATGCTCTGTG ACAAGGCTAC GCTGACAATC
AGTTAAACAC ACCGGAGAAG AACCATTTAC ATGCACCTTA TATTTCTGTG
TACACATCTA TTCTCAAAGC TAAAGGGTAT GAAAGTGCCT GCCTTGTTTA
TAGCCACTTG TGAGTAAAAA TTTTTTTGCA TTTTCACAAA TTATACTTTA
TATAAGGCAT TCCACACCTA AGAACTAGTT TTGGGAAATG TAGCCCTGGG
TTTAATGTCA AATCAAGGCA AAAGGAATTA AATAATGTAC TTTTGGCTAG
AGGGGTAAAC TTTTTTGGCC TTTTCTGGG GAAAATAATG TGGGGGTGTG
GGAATTCGAA TTCGATATCA AGCTTATCGA TACCGTCGAC CTCGAGGGGG
GGCCCGGTAC CCAATTCGCC CTATAGTGAG TCGTATTACA ATT (SEQ ID NO:1)

FIGURE 1C

1 TACGCCAAGCTCGAAATTAACCCCTCACTAAAGGGAACAAAAGCTGGAGCTCCACCGCGGT 60
 61 GCGGCGCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGAATTCTCATAACCT 120
 121 ATGACTAGGACGGGAAGAGGAAGCACTGCCTTTACTTCAGTGGGAATCTCGGCCTCAGCC 180
 181 TGCAAGCCAAGTGTTCACAGTGAGAAAAGCAAGAGAATAAGCTAATACTCCTGTCCTGAA 240
 241 CAAGGCAGCGGCTCCTTGGTAAAGCTACTCCTTGATCGATCCTTTGCACCGGATTGTTCA 300
 S I L C T G L F K
 301 AAGTGGACCCCAGGGGAGAAGTCGGAGCAAAGAACTTACCACCAAGCAGTCCAAGAGGCC 360
 V D P R G E V G A K N L P P S S P R G P
 361 CAGAAGCAAACCTGGAGGTGAGACCCAAAGAAAGCTGGAACCATGCTGACTTTGTACACT 420
 E A N L E V R P K E S W N H A D F V H C
 421 GTGAGGACACAGAGTCTGTTCTGGAAGCCAGTGTCAACGCAGATGAGGAAGTCGGAG 480
 E D T E S V P G K P S V N A D E E V G G
 481 GTCCCCAAATCTGCCGTGTATGTGGGGACAAGGCCACTGGCTATCACTTCAATGTCATGA 540
 P Q I C R V C G D K A T G Y H F N V M T
 541 CATGTGAAGGATGCAAGGGCTTTTTTCAGGAGGGCCATGAAACGCAACGCCCCGGCTGAGGT 600
 C E G C K G F F R R A M K R N A R L R C
 601 GCCCCCTTCCGGAAGGGCGCCTGCGAGATCACCCGGAAGACCCGGCGACAGTGCCAGGCCT 660
 P F R K G A C E I T R K T R R Q C Q A C
 661 GCGGCTGCGCAAGTGCCTGGAGAGCGGCATGAAGAAGGAGATGATCATGTCCGACGAGG 720
 R L R K C L E S G M K K E M I M S D E A
 721 CCGTGGAGGAGAGGGCGGCCTTGATCAAGCGGAAGAAAAGTGAACGGACAGGGACTCAGC 780
 V E E R R A L I K R K K S E R T G T Q P
 781 CACTGGGAGTGCAGGGGCTGACAGAGGAGCAGCGGATGATGATCAGGGAGCTGATGGACG 840
 L G V Q G L T E E Q R M M I R E L M D A
 841 CTCAGATGAAAACCTTTGACACTACCTTCTCCCATTTCAAGAATTTCCGGCTGCCAGGGG 900
 Q M K T F D T T F S H F K N F R L P G V
 901 TGCTTAGCAGTGGCTGCGAGTTGCCAGAGTCTCTGCAGGCCCATCGAGGGAAGAAGCTG 960
 L S S G C E L P E S L Q A P S R E E A A

FIGURE 2A

961 CCAAGTGGAGCCAGGTCCGGAAAGATCTGTGCTCTTTGAAGGTCTCTCTGCAGCTGCGGG 1020
 K W S Q V R K D L C S L K V S L Q L R G
 1021 GGGAGGATGGCAGTGTCTGGAACTACAAACCCCGACAGTGGCGGGAAAGAGATCT 1080
 E D G S V W N Y K P P A D S G G K E I F
 1081 TCTCCCTGCTGCCCCACATGGCTGACATGTCAACCTACATGTTCAAAGGCATCATCAGCT 1140
 S L L P H M A D M S T Y M F K G I I S F
 1141 TTGCCAAAGTCATCTCCTACTTCAGGGACTTGCCCATCGAGGACCAGATCTCCCTGCTGA 1200
 A K V I S Y F R D L P I E D Q I S L L K
 1201 AGGGGGCCGCTTTTCGAGCTGTGTCAACTGAGATTCAACACAGTGTTCACGCGGAGACTG 1260
 G A A F E L C Q L R F N T V F N A E T G
 1261 GAACCTGGGAGTGTGGCCGGCTGTCTACTGCTTGAAGACACTGCAGGTGGCTTCCAGC 1320
 T W E C G R L S Y C L E D T A G G F Q Q
 1321 AACTTCTACTGGAGCCCATGCTGAAATCCACTACATGCTGAAGAAGCTGCAGCTGCATG 1380
 L L L E P M L K F H Y M L K K L Q L H E
 1381 AGGAGGAGTATGTGCTGATGCAGGCCATCTCCCTCTTCTCCCCAGACCGCCAGGTGTGC 1440
 E E Y V L M Q A I S L F S P D R P G V L
 1441 TGCAGCACCGCGTGGTGGACCAGCTGCAGGAGCAATTGCGCATTACTCTGAAGTCCTACA 1500
 Q H R V V D Q L Q E Q F A I T L K S Y I
 1501 TTGAATGCAATCGGCCCCAGCCTGCTCATAGGTTCTTGTTCCTGAAGATCATGGCTATGC 1560
 E C N R P Q P A H R F L F L K I M A M L
 1561 TCACCGAGCTCCGCAGCATCAATGCTCAGCACACCCAGCGGCTGCTGCGCATCCAGGACA 1620
 T E L R S I N A Q H T Q R L L R I Q D I
 1621 TACACCCCTTTGCTACGCCCCCTCATGCAGGAGTTGTTCCGCATCACAGGTAGCTGAGCGG 1680
 H P F A T P L M Q E L F G I T G S (SEQ ID NO:2)
 1681 CTGCCCTTGGGTGACACCTCCGAGAGGCAGCCAGACCCAGAGCCCTCTGAGCCGCCACTC 1740
 1741 CCGGGCCAAGACAGATGGACACTGCCAAGAGCCGACAATGCCCTGCTGGCCTGTCTCCCT 1800

FIGURE 2B

1801	AGGGAATTCCTGCTATGACAGCTGGCTAGCATTCCCTCAGGAAGGACATGGGTGCCCCCA	1860
1861	CCCCCAGTTCAGTCTGTAGGGAGTGAAGCCACAGATTCTTACGTGGAGAGTGCCTGACC	1920
1921	TGTAGGTCAGGACCATCAGAGAGGCAAGGTTGCCCTTTCCCTTTTAAAAGGCCCTGTGGTC	1980
1981	TGGGGAGAAATCCCTCAGATCCCACTAAAGTGTCAAGGTGTGGAAGGGACCAAGCGACCA	2040
2041	AGGATAGGCCATCTGGGGTCTATGCCACATACCCACGTTTGTTCGCTTCCTGAGTCTTT	2100
2101	TCATTGCTACCTCTAATAGTCTGTCTCCCACTTCCCACTCGTTCCCTCCTCTTCCGAG	2160
2161	CTGCTTTGTGGGCTCCAGGCCTGTACTCATCGGCAGGTGCATGAGTATCTGTGGGAGTCC	2220
2221	TCTAGAGAGATGAGAAGCCAGGAGGCCTGCACCAAATGTCAGAAGCTTGGCATGACCTCA	2280
2281	TTCCGGCCACATCATTCTGTGTCTCTGCATCCATTTGAACACATTATTAAGCACCGATAA	2340
2341	TAGGTAGCCTGCTGTGGGGTATACAGCATTGACTCAGATATAGATCCTGAGCTCACAGAG	2400
2401	TTTATAGTTAAAAAACAACAGAAACACAACAATTTGGATCAAAAGGAGAAATGATAA	2460
2461	GTGACAAAAGCAGCACAAGGAATTTCCCTGTGTGGATGCTGAGCTGTGATGGCGGGCACT	2520
2521	GGGTACCCAAGTGAAGGTTCCCGAGGACATGAGTCTGTAGGAGCAAGGGCACAACCTGCA	2580
2581	GCTGTGAGTGCGTGTGTGTGATTTGGTGTAGGTAGGTCTGTTTGCCACTTGATGGGGCCT	2640
2641	GGGTTTGTTCCTGGGGCTGGAATGCTGGGTATGCTCTGTGACAAGGCTACGCTGACAATC	2700
2701	AGTTAAACACACCGGAGAAGAACCATTTACATGCACCTTATATTTCTGTGTACACATCTA	2760
2761	TTCTCAAAGCTAAAGGGTATGAAAGTGCTGCCTTGTTTATAGCCACTTGTGAGTAAAAA	2820
2821	TTTTTTTGCATTTTCACAAATTATACTTTATATAAGGCATTCCACACCTAAGAACTAGTT	2880
2881	TTGGGAAATGTAGCCCTGGGTTTAATGTCAAATCAAGGCAAAAGGAATTAAATAATGTAC	2940
2941	TTTTGGCTAGAGGGGTAAACTTTTTTGGCCTTTTTCTGGGGAAATAATGTGGGGGTGTG	3000
3001	GGAATTCGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTAC	3060
3061	CCAATTCGCCCTATAGTGAGTCGTATTACAATT (SEQ ID NO: 1)	3093

FIGURE 2C

SILCTGLFKV DPRGEVGAKN LPPSSPRGPE ANLEVRPKES WNHADFVHCE
DTESVPGKPS VNADEEVGGP QICRVCGDKA TGYHFNVMTC EGCKGFFRA
MKRNARLRCP FRKGACEITR KTRRQCQACR LRKCLESQMK KEMIMSDEAV
EERRALIKRK KSERTGTQPL GVOGLTEEQR MMIRELMDAQ MKTFDITFSH
FKNFRLPGVL SSGCELPESL QAPSREEAAK WSQVRKDLCS LKVSLLQLRGE
DGSVWNYKPP ADSSGKEIFS LLPHMADMST YMFKGIISFA KVISYFRDLP
IEDQISLLKG AAFELCQLRF NTVFNAETGT WECGRLSYCL EDTAGGFQQL
LLEPMLKFHY MLKKLQLHEE EYVLMQAISL FSPDRPGVLQ HRVVDQLQEQ
FAITLKSIE CNRPQPAHRF LFLKIMAMLT ELRSINAQHT QRLRLRIQDIH
PFATPLMQEL FGITGS (SEQ ID NO:2)

FIGURE 3

1 TCCATCCTAA TACGACTCAC TATAGGGCTC GAGCGGCCGC CCGGGCAGGT
 51 CTTTTGGCCT GCTGGGTTAG TGCTGGCAGC CCCCTGAGGC CAAGGACAGC
 101 AGCATGACAG TCACCAGGAC TCACCACTTC AAGGAGGGGT CCTCAGAGC
 151 ACCTGCCATA CCCCTGCACA GTGCTGCGGC TGAGTTGGCT TCAAACCATC
 201 CAAGAGGCCC AGAAGCAAAC CTGGAGGTGA GACCCAAAGA AAGCTGGAAC
 251 CATGCTGACT TTGTACACTG TGAGGACACA GAGTCTGTTC CTGGAAAGCC
 301 CAGTGTCAAC GCAGATGAGG AAGTCGGAGG TCCCCAAATC TGCCGTGTAT
 351 GTGGGGACAA GGCCACTGGC TATCACTTCA ATGTCATGAC ATGTGAAGGA
 401 TGCAAGGGCT TTTTCAGGAG GGCCATGAAA CGCAACGCCC GGCTGAGGTG
 451 CCCCTTCCGG AAGGGCGCCT GCGAGATCAC CCGGAAGACC CGGCGACAGT
 501 GCCAGGCCTG CCGCCTGCGC AAGTGCCTGG AGAGCGGCAT GAAGAAGGAG
 551 ATGATCATGT CCGACGAGGC CGTGGAGGAG AGGCGGGCCT TGATCAAGCG
 601 GAAGAAAAGT GAACGGACAG GGACTCAGCC ACTGGGAGTG CAGGGGCTGA
 651 CAGAGGAGCA GCGGATGATG ATCAGGGAGC TGATGGACGC TCAGATGAAA
 701 ACCTTTGACA CTACCTTCTC CCATTTCAAG AATTTCCGGC TGCCAGGGGT
 751 GCTTAGCAGT GGCTGCGAGT TGCCAGAGTC TCTGCAGGCC CCATCGAGGG
 801 AAGAAGCTGC CAAGTGGAGC CAGGTCCGGA AAGATCTGTG CTCTTTGAAG
 851 GTCTCTCTGC AGCTGCGGGG GGAGGATGGC AGTGTCTGGA ACTACAAACC
 901 CCCAGCCGAC AGTGGCGGGA AAGAGATCTT CTCCCTGCTG CCCCACATGG
 951 CTGACATGTC AACCTACATG TTCAAAGGCA TCATCAGCTT TGCCAAAGTC
 1001 ATCTCCTACT TCAGGGACTT GCCCATCGAG GACCAGATCT CCCTGCTGAA
 1051 GGGGGCCGCT TTCGAGCTGT GTCAACTGAG ATTCAACACA GTGTTCAACG

FIGURE 4A

1101 CGGAGACTGG AACCTGGGAG TGTGGCCGGC TGTCCCTACTG CTTGGAAGAC
 1151 ACTGCAGGTG GCTTCCAGCA ACTTCTACTG GAGCCCATGC TGAAATTCCA
 1201 CTACATGCTG AAGAAGCTGC AGCTGCATGA GGAGGAGTAT GTGCTGATGC
 1251 AGGCCATCTC CCTCTTCTCC CCAGACCGCC CAGGTGTGCT GCAGCACCGC
 1301 GTGGTGGACC AGCTGCAGGA GCAATTCGCC ATTACTCTGA AGTCCTACAT
 1351 TGAATGCAAT CGGCCCCAGC CTGCTCATAG GTTCTTGTTT CTGAAGATCA
 1401 TGGCTATGCT CACCGAGCTC CGCAGCATCA ATGCTCAGCA CACCCAGCGG
 1451 CTGCTGCGCA TCCAGGACAT ACACCCCTTT GCTACGCCCC TCATGCAGGA
 1501 GTTGTTCGGC ATCACAGGTA GCTGAGCGGC TGCCCTTGGG TGACACCTCC
 1551 GAGAGGCAGC CAGACCCAGA GCCCTCTGAG CCGCCACTCC CGGGCCAAGA
 1601 CAGATGGACA CTGCCAAGAG CCGACAATGC CCTGCTGGCC TGTCTCCCTA
 1651 GGGAAATTCCT GCTATGACAG CTGGCTAGCA TTCCTCAGGA AGGACATGGG
 1701 TGCCCCCCAC CCCCAGTTCA GTCTGTAGGG AGTGAAGCCA CAGATTCTTA
 1751 CGTGGAGAGT GCACTGACCT GTAGGTCAGG ACCATCAGAG AGGCAAGGTT
 1801 GCCCTTTCCT TTAAAAGGC CCTGTGGTCT GGGGAGAAAT CCCTCAGATC
 1851 CCACTAAAGT GTCAAGGTGT GGAAGGGACC AAGCGACCAA GGATAGGCCA
 1901 TCTGGGGTCT ATGCCACAT ACCCACGTTT GTTCGCTTCC TGAGTCTTTT
 1951 CATTGCTACC TCTAATAGTC CTGTCTCCCA CTTCCCACTC GTTCCCCTCC
 2001 TCTTCCGAGC TGCTTTGTGG GCTCCAGGCC TGTACTCATC GGCAGGTGCA
 2051 TGAGTATCTG TGGGAGTCCT CTAGAGAGAT GAGAAGCCAG GAGGCCTGCA
 2101 CCAAATGTCA GAAGCTTGGC ATGACCTCAT TCCGGCCACA TCATTCTGTG
 2151 TCTCTGCATC CATTTGAACA CATTATTAAG CACCGATAAT AGGTAGCCTG

FIGURE 4B

2201 CTGTGGGGTA TACAGCATTG ACTCAGATAT AGATCCTGAG CTCACAGAGT
2251 TTATAGTTAA AAAAACAAC AGAAACACAA ACAATTTGGA TCAAAAGGAG
2301 AAATGATAAG TGACAAAAGC AGCACAAGGA ATTTCCCTGT GTGGATGCTG
2351 AGCTGTGATG GCGGGCACTG GGTACCCAAG TGAAGGTTCC CGAGGACATG
2401 AGTCTGTAGG AGCAAGGGCA CAAACTGCAG CTGTGAGTGC GTGTGTGTGA
2451 TTTGGTGTAG GTAGGTCTGT TTGCCACTTG ATGGGGCCTG GGTTTGTTC
2501 TGGGGCTGGA ATGCTGGGTA TGCTCTGTGA CAAGGCTACG CTGACAATCA
2551 GTTAAACACA CCGGAGAAGA ACCATTTACA TGCACCTTAT ATTTCTGTGT
2601 ACACATCTAT TCTCAAAGCT AAAGGGTATG AAAGTGCCTG CCTTGTTTAT
2651 AGCCACTTGT GAGTAAAAAT TTTTTTGCAT TTTCACAAAT TATACTTTAT
2701 ATAAGGCATT CCACACCTAA GAACTAGTTT TGGGAAATGT AGCCCTGGGT
2751 TTAATGTCAA ATCAAGGCAA AAGGAATTAA ATAATGTACT TTTGGCTAGA
2801 GGGGTAACT TTTTTGGCCT TTTTCTGGGG AAAATAATGT GGGGGTGTGG

(SEQ ID NO:17)

FIGURE 4C

TCCATCCCTAATACGACTCACTATAGGGCTCGAGCGGGCGCGCGGGCAGGTCTTTGGCCT 60
 GCTGGGTTAGTGCTGGCAGCCCCCTGAGGCCAAGGACAGCAGCATGACAGTCACCAGGAC 120
 M T V T R T
 TCACCACTTCAAGGAGGGGTCCCTCAGAGCACCTGCCATACCCCTGCACAGTGCTGCGGC 180
 H H F K E G S L R A P A I P L H S A A A
 TGAGTTGGCTTCAAACCATCCAAGAGGGCCAGAAGCAAACCTGGAGGTGAGACCCAAAGA 240
 E L A S N H P R G P E A N L E V R P K E
 AAGCTGGAACCATGCTGACTTTGTACACTGTGAGGACACAGAGTCTGTTCTGGAAGCC 300
 S W N H A D F V H C E D T E S V P G K P
 CAGTGTCAACGCAGATGAGGAAGTCGGAGGTCCCCAATCTGCCGTGTATGTGGGGACAA 360
 S V N A D E E V G G P Q I C R V C G D K
 GGCCACTGGCTATCACTTCAATGTGATGACATGTGAAGGATGCAAGGGCTTTTTCAGGAG 420
 A T G Y H F N V M T C E G C K G F F R R
 GGCCATGAAACGCAACGCCCCGGCTGAGGTGCCCTTCCGGAAGGGCGCCTGCGAGATCAC 480
 A M K R N A R L R C P F R K G A C E I T
 CCGGAAGACCCGGCGACAGTGCCAGGCCTGCCCGCTGCGCAAGTGCCTGGAGAGCGGCAT 540
 R K T R R O C O A C R L R K C L E S G M
 GAAGAAGGAGATGATCATGTCCGACGAGGCGCTGGAGGAGAGGGCGGGCCTTGATCAAGCG 600
 K K E M I M S D E A V E E R R A L I K R
 GAAGAAAAGTGAACGGACAGGGACTCAGCCACTGGGAGTGCAGGGGCTGACAGAGGAGCA 660
 K K S E R T G T Q P L G V Q G L T E E Q
 GCGGATGATGATCAGGGAGCTGATGGACGCTCAGATGAAAACCTTTGACACTACCTTCTC 720
 R M M I R E L M D A Q M K T F D T T F S
 CCATTTCAAGAATTTCCGGCTGCCAGGGGTGCTTAGCAGTGGCTGCGAGTTGCCAGAGTC 780
 H F K N F R L P G V L S S G C E L P E S
 TCTGCAGGCCCCATCGAGGGAAGAAGCTGCCAAGTGGAGCCAGGTCCGGAAAGATCTGTG 840
 L Q A P S R E E A A K W S Q V R K D L C
 CTCTTTGAAGGTCTCTCTGCAGCTGCGGGGGGAGGATGGCAGTGTCTGGAACCTACAAAC 900
 S L K V S L Q L R G E D G S V W N Y K P
 CCCAGCCGACAGTGGCGGGAAAGAGATCTTCTCCCTGCTGCCCCACATGGCTGACATGTC 960
 P A D S G G K E I F S L L P H M A D M S
 AACCTACATGTTCAAAGGCATCATCAGCTTTGCCAAAGTCATCTCCTACTTCAGGGACTT 1020
 T Y M F K G I I S F A K V I S Y F R D L

FIGURE 5A

GCCCATCGAGGACCAGATCTCCCTGCTGAAGGGGGCCGCTTTTCGAGCTGTGTCAACTGAG P I E D Q I S L L K G A A F E L C Q L R	1080
ATTCAACACAGTGTTC AACGCGGAGACTGGAACCTGGGAGTGTGGCCGGCTGTCCTACTG F N T V F N A E T G T W E C G R L S Y C	1140
CTTGAAGACACTGCAGGTGGCTTCCAGCAACTTCTACTGGAGCCCATGCTGAAATTCCA L E D T A G G F Q Q L L L E P M L K F H	1200
CTACATGCTGAAGAAGCTGCAGCTGCATGAGGAGGAGTATGTGCTGATGCAGGCCATCTC Y M L K K L Q L H E E E Y V L M Q A I S	1260
CCTCTTCTCCCCAGACCGCCAGGTGTGCTGCAGCACCGCGTGGTGGACCAGCTGCAGGA L F S P D R P G V L Q H R V V D Q L Q E	1320
GCAATTCGCCATTACTCTGAAGTCCTACATTGAATGCAATCGGCCCCAGCCTGCTCATAG Q F A I T L K S Y I E C N R P Q P A H R	1380
GTTCTTGTTCCTGAAGATCATGGCTATGCTCACCGAGCTCCGCAGCATCAATGCTCAGCA F L F L K I M A M L T E L R S I N A Q H	1440
CACCCAGCGGCTGCTGCGCATCCAGGACATACACCCCTTTGCTACGCCCCCTCATGCAGGA T Q R L L R I Q D I H P F A T P L M Q E	1500
GTTGTTGCGCATCACAGGTAGCTGAGCGGCTGCCCTTGGGTGACACCTCCGAGAGGCAGC L F G I T G S (SEQ ID NO:18)	1560
CAGACCCAGAGCCCTCTGAGCCGCCACTCCCGGGCCAAGACAGATGGACACTGCCAAGAG CCGACAATGCCCTGCTGGCCTGTCTCCCTAGGGAATTCCTGCTATGACAGCTGGCTAGCA	1620
TTCCTCAGGAAGGACATGGGTGCCCCCCCCACCCCCAGTTTCAGTCTGTAGGGAGTGAAGCCA CAGATTCTTACGTGGAGAGTGCAGTGCCTGTAGGTGAGGACCATCAGAGAGGCAAGGTT	1680
GCCCTTTTCCTTTTAAAAGGCCCTGTGGTCTGGGGAGAAATCCCTCAGATCCCACTAAAGT GTCAAGGTGTGGAAGGGACCAAGCGACCAAGGATAGGCCATCTGGGGTCTATGCCCCACAT	1740
ACCCACGTTTGTTCGCTTCCTGAGTCTTTTCATTGCTACCTCTAATAGTCTGTCTCCCA CTTCCCACTCGTTCCCCCTCCTCTTCCGAGCTGCTTTGTGGGCTCCAGGCCTGTACTCATC	1800
GGCAGGTGCATGAGTATCTGTGGGAGTCTCTAGAGAGATGAGAAGCCAGGAGGCCTGCA CCAAATGTGAGAAGCTTGGCATGACCTCATTCCGGCCACATCATTCTGTGTCTCTGCATC	1860
CATTTGAACACATTATTAAGCACCGATAATAGGTAGCCTGCTGTGGGGTATACAGCATTG	1920
	1980
	2040
	2100
	2160
	2220

FIGURE 5B

FIGURE 5C

FIGURE 6